

**Abstract of the Invention:**

A vascular access device and method of using is disclosed. The vascular access device includes a housing defining a cavity and adapted to connect to a catheter. A self-sealing injection port and a subhousing are also provided. The subhousing may be movably connected to the housing so that a position of the other end of the subhousing relative to the housing can be selectively adjusted within a range of positions. A unidirectional fluid valve permits solution flow from the subhousing to the housing. The vascular access device may be utilized in a variety of treatment protocols including medication administration, fluid sampling, and placement of balloon catheters or guide wire-based medical devices.